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# भारत का राजपत्र

## The Gazette of India

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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

### भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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Calcutta, the 23rd June, 1984

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## REGISTRATION AS PATENT AGENTS

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Bombay-400 023.
3. Shri I. M. S. Mamak,  
B-464, New Friends Colony,  
New Delhi-110 065.

## APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017

The dates shown in crecent brackets are the dates claimed under Section 135, of the Act.

The 17th May, 1984

- 341|Cal|84. Seimens Aktiengesellschaft. A Terminal arrangement for a switchgear or a combination of switch gears.
- 342|Cal|84. Combustion Engineering, Inc. Furnace Buckstay Design.

The 18th May, 1984

- 343|Cal|84. The Indian Yeast Company Limited. A process for the production of yeast extract for food, Pharmaceutical and Fermentation Industries.
- 344|Cal|64. Nippon Soda Company, Limited. Carboxyamine Derivatives.
- 345|Cal|84. Johnson & Johnson. Continuous Removal of ethylene oxide from Gaseous Streams.

The 22nd May, 1984

- 346|Cal|84. Sushil Chandra Sridastava. Process for the manufacture of composite structures such as pipes form Slag.
- 347|Cal|84. Rakesh Kumar Singh. An Angle Meter.
- 348|Cal|84. Gea GmbH. Heat Exchanger.
- 349|Cal|84. Hoechst Aktiengesellschaft. A process for the preparation of water soluble Plthalocyanine compounds containing a sulfonyl cyanamide group. [Divisional date 1st July, 1981].
- 350|Cal|84. Kabushiki Kaisha Meidensha. Vacuum interrupter.
- 351|Cal|84. Union Carbide Corporation. Corrosion Inhibitors for Alkanolamine gas treating systems. [Divisional date 24th June, 1981].
- 352|Cal|84. Union Carbide Corporation. Corrosion Inhibitors for Alkanolamine gas treating systems. [Divisional date 24th June, 1984].

The 23rd May, 1984

- 353|Cal|84. NEFF Gewindespindeln GmbH. Circulating Ball Worm Drive.
- 354|Cal|84. American Cyanamid Company. Process for the preparation of 2-(4-Hydroxyphenyl) 3-Methylbutyric Acid.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of

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CLASS : 129Q & 206E, G.

153241.

Int. Class : B23k 9/00 & H03k 3/00.

## "PULSED WELDER MODULE".

Applicant : BHARAT HEVAY ELECTRICALS LTD., 18-20, Kasturba Gandhi Marg, New Delhi-110001, India, an Indian Company.

Inventors : REGOUBADY RAMANANDAN & VENKATESAN RAMACHANDRAN.

Application for Patent No. 736|Del|79 filed on 24th October, 1979.

Complete specification left on 20th January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(6 claims)

A pulsed welder module for use with an electric arc welding power source comprising an SCR controlled half wave rectifier which is controlled by firing pulses from a pulse generator connected to a zero cross detector and is controlled by an I.C. timer and an I.C. comparator, a ramp generator connected on its output side to the zero cross detector and the I.C. comparator in parallel and an I.C. integrator connected on its output side to the I.C. comparator.

(Provisional specification 4 pages).

(Complete specification 5 pages. Drawing 1 sheet).

CLASS : 129 D.

155242.

Int. Class : B23k 35/36.

## "PROCESS FOR PRODUCING WELDING FLUX"

Applicant : BHARAT HEVAY ELECTRICALS LTD. of 18-20 Kasturba Gandhi Marg, New Delhi-110 001, India, an Indian Company.

Inventors : ARDHENDU MOULI MOHANTY & ARUMUGAM SHANMUGAM.

Application for Patent No. 737|Del|79 filed on 24th October, 1979.

(Complete specification left on 12th January, 1981).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(7 claims)

(1) A process for producing a welding flux containing

$\text{SiO}_2 = 35 - 37.5\%$

$\text{CaO} = 18 - 20\%$

$\text{CaF}_2 = 15 - 18\%$

$\text{Na}_2\text{O} + \text{K}_2\text{O} = 1.5\% \text{ Max.}$

$\text{MnO} = 5 - 7\%$

$\text{MgO} = 8\%$

$\text{Al}_2\text{O}_3 = 10\%$

$\text{Fe}_2\text{O}_3 = 1.5\% \text{ Max.}$

in a fused form, which process comprises preparing a dried intimate mix of the following components

(1) Quartz ( $\text{SiO}_2$  content 99%).

(2) Lime ( $\text{CaO}$  content 98%).

(3) Magnesite pure  $\text{MgO}$  content 90-94%.

(4) Dolomite ( $\text{CaCO}_3$  content 49-55%,  $\text{MgCO}_3$  content 40-45% and  $\text{SiO}_2$  content 2-13%).

(5) Bauxite ( $\text{Al}_2\text{O}_3$  content 80% (High silica bauxite may also be used).

(6) Fluorspar ( $\text{CaF}_2$  content 94%);

subjecting that dried intimate powder mix to a step of melting, allowing the melt to become fully fused followed by quenching the melt, at least partly followed by subjecting at least the semi-quenched melt and solids obtained to a step of crushing to obtain grains of required size and thereafter drying the crushed material.

(Provisional specification 3 pages).

(Complete specification 8 pages).

CLASS : 143D<sub>1</sub>

153243.

Int. Class : B65b 19/34.

#### "A MACHINE OR APPARATUS FOR PACKING WELDING CONSUMABLES"

Applicant : BHARAT HEAVY ELECTRICALS LTD., 18-20 Kasturba Gandhi Marg, New Delhi-110001, India an Indian Company.

Inventors : RISHNASWAMY PADMANABAN & SIVASANKARAN MANOHARAN.

Application for Patent No. 738/Del/79 filed on 24th October, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(6 claims)

A machine or apparatus for packing welding consumables comprising a vacuum pump for evacuating the container packed with the consumables, a pneumatic motor in the form of a pneumatic cylinder adapted to clamp the open side of the packed container between two jaws, and a second pneumatic motor or cylinder for sealing the mouth of the packed container, piston of the second cylinder having a resistance heating unit

(Complete specification 7 pages, Drawing 2 sheets).

CLASS : 80 K.

153244.

Int. Class : B01d 31/00.

#### "IMPROVED ULTRAFILTRATION AND REVERSE OSMOSIS DEVICE"

Applicant : UNION CARBIDE CORPORATION, a corporation organised under the laws of the State of New York, United States of America, Located at 270 Park Avenue, New York, State of New York, 10017, United States of America.

Inventor : BARTHOLOMEW HARGITAY.

Application for Patent No. 740/Del/79 filed on 24th October, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(13 claims)

An improved ultrafiltration and reverse osmosis device which is comprised of, in part, a module containing a plurality of axially aligned hollow, porous, tubular members disposed in a permeate collection zone, all of said tubular members being :

(a) bonded together at spaced intervals along their outer surfaces in a manner which prevents relative axial movement of individual members with respect to one another and which permits permeate passing through the walls of said tubular members to flow freely between adjacent members, and

(b) fixedly and sterilizably mounted at each end into a header, said header having means for engagement with said device.

(Complete specification 21 pages, Drawing 3 sheets).

CLASS : 65 B<sub>2</sub>

153245.

Int. Class : H01f 21/12.

#### "A LOAD SELECTOR FOR A TAPPED TRANSFORMER"

Applicant : MASCHINENFABRIK REINHAUSEN GEBRUDER SCHEUBECK GMBH & CO. KG., of Falkensteinstrasse 8, 8400 Regensburg, Federal Republic of Germany, a Kommanditgesellschaft organized under the laws of the Federal Republic of Germany.

Inventors : Alexander Bleibtreu & Josef Neumeyer.

Application for Patent No. 759/Del/79 filed on 30th October, 1979.

Appropriate Office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(3 claims)

A load selector for a tapped transformer, comprising first carrier means carrying stationary contacts arranged in a scale and control cams of insulating material disposed adjacent the stationary contacts, and second carrier means carrying movable contacts displaceable along the circle, the movable contacts comprising contact rollers arranged to roll along the stationary contacts and at least one roller of insulating material arranged adjacent each of the contact rollers and the control cams being so arranged that during switching operation the rollers of insulating material run onto the control cams and cause the contact rollers to lift from the stationary contacts before the contact rollers reach edge portions of the stationary contacts.

(Complete specification 7 pages, Drawing 2 sheets).

CLASS : 114 E.

153246.

Int. Class : C14c 1|08.

"A PROCESS FOR THE PREPARATION OF IMPROVED ENZYME BATE FOR USE IN LEATHER MANUFACTURE".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India, and Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors :- DR. SUSHIL CHANDRA DHAR & MOUNANANDHAM PANNER SELVAM.

Application for Patent No. 784|Del|79 filed on 5th November, 1979.

Complete specification left on 4th December, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(5 Claims)

A process for the preparation of an improved enzyme bate for use in leather manufacture comprising incubating, in a nutrient medium consisting of rice bran and wheat bran in water and sugar, a mold of *Aspergillus fumigatus* at room temperature to obtain an enzyme bate, separating the enzyme extract therefrom, treating the same with animal pancreas at room temperature, admixing the treated pancreas pulp with wheat bran, sodium sulphate and magnesium sulphate, drying and powdering the reaction product to obtain desired enzyme bates.

(Provisional specification 6 pages).

(Complete specification 9 pages. Drawing 1 sheet).

Ind cl 32 E + 152 E

153247

In. cl. C 08 f 29|00 47|00.

A PROCESS FOR THE MANUFACTURE OF CHLORINATED ATACTIC POLYPROPYLENE.

Applicant : INDIAN PETROCHEMICALS CORPORATION LIMITED, A GOVERNMENT OF INDIA COMPANY, INCORPORATED UNDER THE COMPANIES ACT, 1956 OF P. O. PETROCHEMICALS DISTRICT BARODA-391346, GUJARAT, INDIA.

Inventors : 1. DR. YOGINDER NATH SHARMA, 2. DR. MELO SATISH, 3. DR. ISHWAR SINGH BHARDWAJ.

Application No. 402|Bom|80 Filed on Dec. 29, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Bombay Branch.

(9 claims)

1. A process for the manufacture of chlorinated stactic polypropylene which comprises mixing atactic polypropylene in a chlorinated solvent of the kind such as herein described to produce a homogeneous solution and passing chlorine gas through said solution.

(Comp. specn. 9 pages, drwg. nil).

In. Class : 173 B.

153248

Int. Class : B05b 7|00 + 9|00.

Title : IMPROVEMENTS IN OR RELATING TO SPRAYERS FOR INSECTICIDES AND OTHER LIQUIDS.

Applicant & Inventor : SHARADCHANDRA DATTARAM PANDIT, AN INDIAN NATIONAL of 181-A|6447, 1st FLOOR, KANNAMWAR NAGAR No. 2 VIKHROLI (East) BOMBAY-400083, MAHARASHTRA, INDIA.

Application No. : 61|BOM|81. Filed on March 2, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office Bombay Branch.

(16 claims)

1. An improved sprayer for liquids or liquid compositions which comprises a container for holding the liquid to be sprayed, support means mounted above the mouth of said container, a blower unit located within a housing mounted on and supported by said support means, said housing being provided with one or more apertures for the ingress of atmospheric air and an outlet duct extending from said housing and being provided at its opposite end with a spraying head located at or near the periphery of said support means, means mounted on said support means for operating the blower unit, and tubular connecting means extending from adjacent said spraying head within the air duct through said support means and into the container whereby on operating the blower unit, atmospheric air is drawn through the apertures into the housing while liquid from the container is drawn up the tubular connecting means to the vicinity of the spraying head where it meets the atmospheric air existing under pressure through the air duct, said air atomising the liquid and forcing it through the spraying head in the form of a fine atomised mist or spray.

(Comp. specn. 14 pages. Drg. 1 sheet).

Int. Class : 195 B + D.

153249.

Int. Class : F16K—15|00.

Title : IMPROVEMENTS IN OR RELATING TO FOOT VALVE.

Applicant : SHYAMPRASAD BALMUKUND TAPADIA, INDIAN NATIONAL OF SONALI ENTERPRISES, 1201, SHUKRAWAR PETH SUBHASH NAGAR ROAD NO. 3, PUNE-411002. STATE OF MAHARASHTRA, INDIA.

Application No. : 118|Bom|81. Filed on May 2, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

(2 claims)

1. An improved foot valve consisting of a metal body, having an upper chamber and a lower chamber divided by a central vane, the said body having an internally threaded neck portion at the top and a grill at the bottom, a collar with the central sleeve provided below the threaded neck portion, a plate integrally provided in the lower chamber having a central hole; the said central vane having a central passage and a seat; a piston type plug resting on the said plug being held in place in the central hole of the said plate.

(Comp. specn. 6 pages. Drg. 1 sheet).

CLASS : 12 C.

153250.

Int. Class : C 21 d—1|00, 5|00, 9|00.

A PROCESS FOR THE PURIFICATION OF IRON POWDER CONTAINING OCCLUDED HYDROGEN GAS.

Applicant and Inventor : DR. UPENDRA NATH BHRANY, INDIAN NATIONAL OF LANDS END BUILDING, DONGARSI ROAD, BOMBAY-400 006 STATE OF MAHARASHTRA, INDIA.

Application No. 148|Bom|1981. Filed May 29, 1981.

Complete after provisional left on May 29, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch

(4 claim)

A process for purification of iron powder containing occluded hydrogen gas which comprises the treating of the iron powder having occluded hydrogen thereon in a furnace through three zones a charging zone, a hot or thermal zone and a cooling zone, wherein the charging zone, the iron powder is treated with purified inert gas for the displacement of atmospheric gases; in the thermal or hot zone the iron powder is heated between 425°C and 625°C for about 30 to 60 minutes in a purified inert gas atmosphere and in the cooling zone the heated iron powder is cooled in a purified inert gas atmosphere for about 20 to 40 minutes and the storage of the iron powder so obtained in an atmosphere which is free of oxygen and moisture.

(Complete specification 7 pages. Drawing 1 sheet).

(Provisional specification 3 pages. Drawing nil).

Int. Cl. 36A<sub>1</sub> + 36 A<sub>a</sub>

153251.

Int. Cl. F04 d 1/00.

Title : IMPROVEMENTS IN CENTRIFUGAL PUMPS.

Applicant : KISHOR PUMPS PRIVATE LIMITED (A COMPANY ORGANISED UNDER THE INDIAN COMPANIES ACT) AT A 13/H, M.I.D.C. INDUSTRIAL ESTATE, PIMPRI, PUNE-411 018, MAHARASHTRA, INDIA.

Inventor : NARAYAN NARSINHA DESAI.

Application No. 275/Bom/81. Filed on Sept. 28, 1981.

Complete after provisional filed on Sept. 15, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Bombay Branch.

(4 claims)

1. An improved centrifugal pump having an impeller mounted on an impeller shaft moving in a pump casing, a stuffing box region behind the impeller through which the impeller shaft extends to the atmosphere the said impeller being provided with back vanes to create low pressure vacuum in the stuffing box region characterised in that an auxiliary inlet pipeline is provided in the stuffing box region the said inlet pipeline being connected to a source of the same liquid as being handled by the pump.

(Prov. specn. 3 pages. Drgs. nil).

(Comp. specn. 8 pages drgs. 2 sheet).

Int. Cl. 14 D2.

153252.

Int. Cl. H01 m 11/00.

AN IMPROVED NON AQUEOUS ELECTROCHEMICAL CELL EVINCING REDUCED VOLTAGE DELAY.

Applicant : DURACELL INTERNATIONAL INC. BERKSHIRE INDUSTRIAL PARK BETHEL CONNECTICUT 06801, UNITED STATES OF AMERICA.

Inventors : 1. ARABINDA NARAYAN DEY,

2. JOHN SHEA MILLER, 3. WILLIAM LEE BOWDEN.

Application No. 197/Bom/80. Filed Jul 3, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Bombay Branch.

(8 claims)

1. An improved non aqueous electrochemical cell evincing reduced voltage delay as defined herein which comprises an anode of an active metal as herein defined, a non aqueous fluid cathode depolarizer of the kind such as herein described and an electrolyte salt dissolved in said depolarizer,

the cation of said salt being selected from the group consisting of alkali and alkaline earth metals and the anion of said salt comprising an oxyhalo gallate, an oxyhalo indate or an oxyhalo thallate or a mixture thereof.

(Comp. specn. 12 pages. drgs nil).

Int. Class : 126 A+D, 101 E.

153253.

Int. Class : G01 f 3/00.

Title : A DEVICE FOR MEASURING THE FLOW RATE OF A FLUID IN A PIPE.

Applicant & Inventor : AVINASH VAIDYA 122/3, ANURAG APARTMENTS, ERANDONA, PUNE-411 004, STATE OF MAHARASHTRA, INDIA.

Application No. : 5/Bom/1981. Filed Jan. 5, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

(4 claims)

1. A device for measuring the flow rate of a fluid in a pipe by making use of vortex shedding principles comprising a bluff body of delta shaped cross sectional area placed within said pipe with its base facing upstream, said body having a through passage in its down stream side and containing a pulse sensing element therewithin for determining the pulses across the passage proportional to the flow rate of the fluid through the said pipe.

(Comp. specn. 6 pages. Drg. 1 sheet).

Int. Class : 52 B.

153254.

Int. Class : B 26f—1/00.

Title : IMPROVEMENTS IN OR RELATING TO PUNCHING MACHINES FOR PUNCHING HOLES IN PAPER OR THE LIKE.

Applicant : SUBHADRABEN VINODCHANDRA GANDHI, AN INDIAN NATIONAL, OF 6 SIDDHARTH SOCIETY, PALDI, AHMEDABAD-380006, GUJARAT STATE, INDIA.

Inventor : VINOD RAMANLAL GANDHI.

Application No. : 136/Bom/81. Filed May 14, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rule 1972) Patent Office, Bombay Branch.

(5 claims)

1. An improved punching device for punching holes in paper, cardboard and the like sheet material which consists of an upper cover which encloses a base component and has an opening on its top face for a knob to slide through it on being pressed manually, the knob carrying slidably fitted therein a U-shaped strip defining two humps in its base, each of the said humps on pressure being applied on the knob, is adapted to press a curved strip placed underneath it which in turn presses a spring loaded puncher, each spring loaded puncher being mounted between a shoulder and an upper plate provided in the base component the upper plate and a bottom plate of the base component being provided with aligned holes for the movement of the punchers therethrough.

(Comp. specn. 10 pages. Drgs. 2 sheets).

Int. Cl. 3 A.

153255.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

Int. Cl. C 02 d 1/00.

2 Claims

AN IMPROVED AERATED WATER PREPARING AND DISPENSING MACHINE.

Applicant & Inventor : GATPAT CHANDUSA SOLANKI, GAKSO REFRIGERATION ENGINEERS, 249-E NAGALA PARK, KOLHAPUR DISTRICT, MAHARASHTRA STATE, INDIA.

Application No. 333/Bom/1981. Filed Dec. 9, 1981.

Complete after provisional left on Mar. 3 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Bombay Branch.

(3 claims)

1. An aerated water preparing and dispensing machine comprising (i) a water pump, adapted to pump water into a water and gas mixing tank at pressure greater than 150 p.s.i. (ii) a water and carbon dioxide mixing tank surrounded by refrigerating coils pressure and outlet means for aerated water (iii) an atomiser provided at the water inlet valve of the water and gas mixing tank that atomises the water as it enters the said tank. (iv) monitoring means for monitoring the level and temperature of water in the said tank, (v) a double walled tube through which carbon dioxide gas is introduced into the tank through the annular space and aerated water is discharged through the inner tube.

(Comp. specn. 5 pages. drgs. 1 sheet).

(Prov. specn. 3 pages. drgs. nil).

Class : 48A<sub>4</sub>

153256.

Int. Class : H01g 13/00.

"A UNIVERSAL TENSIONING DEVICE FOR WINDING OF CONDUCTORS OF ELECTRICAL MACHINES"

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, of 18-20 Kasturba Gandhi Marg, New Delhi-110001, India, an Indian Company.

Inventor : HARISH CHANDRA REJA.

Application for patent No. 729/DEL/79 filed on 18th October, 1979.

Appropriate Office for opposition proceedings (RULE 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

(7 Claims)

A universal tensioning device for winding of coils of electrical machines comprising a support plate having at least two inclined slots provided in spaced relationship to each other, each of said slots adapted to support at least one axle, a roller rotatably supported on each of said axles, spring loaded means provided with each axle for controlling the rotational movement of said roller and for preventing a longitudinal displacement of the roller during its rotational movement.

(Complete Specification 10 pages Drawing one sheet)

Class : 146D<sub>1</sub>

153257

Int. Class : G 03b 21/00

"A REAR PROJECTION SCREEN FOR DISTRIBUTION OF LIGHT OF THE PROJECTOR EVENLY OVER THE SPECTATORS".

Applicant : Secretary, National Council of Educational Research and Training, Sri Aurobindo Marg, New Delhi-110016, India, an registered society under the Societies Registration Act, 1860, under the laws of India.

Inventor : VED RATNA. P. K. BHATTACHARYA AND POORAN KUMAR.

Application for Patent No. 775/Del/79 filed on 5th November, 1979.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

2 Claims

A rear projection screen for distribution of light of the projector evenly over the spectators comprising of a thin sheet of a known transparent plastic material, one side of the said sheet being a matt surface and the other side has vertically extending alternately concave and convex cylindrical lenses parallel to each other in which section of each lens is a circular arc of a width not exceeding 1 mm and the angle subtended by each arc with its centre being between 30° to 90°, with a maximum variation of  $\pm 5^\circ$  within the same screen.

(Complete Specification 5 Pages

Drawing 1 sheet).

Class : 48A<sub>4</sub>

153258

Int. Class H01g 13/00.

"IMPROVEMENTS IN OR RELATING TO AN UNIVERSAL TENSIONING DEVICE FOR WINDING OF CONDUCTORS OF ELECTRICAL MACHINES".

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, of 18-20 Kasturba Gandhi Marg, New Delhi-110001, India an Indian Company.

Inventor : HARISH CHANDRA REJA.

Application for patent No. 436/Del/80 filed on 12th June, 1980. Additional of patent application No. 729/Del/79 filed on 18th October, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-1100005.

2 Claims

An universal tensioning device for winding of coils of electrical machines comprising a support plate having at least two inclined slots provided in a spaced relationship to each other, each of said slots adapted to support at least one axle, a roller rotatably supported on each of said axles, a controller provided for each axle for controlling the rotational movement of said roller and for preventing a longitudinal displacement of the roller during its rotational movement characterised in that the said controller is provided with an indicating means such as a pointer for determining the number of rotations or turns made indicating the amount of tension or pressure applied to the conductor.

(Complete specification 11 pages

Drawing 1 sheet).

Class. 136C &amp; E.

153259.

Int. Cl. B 29 f 1/00.

METHOD OF PRODUCING MOLDED BODIES OF EXPANDED PLASTIC

Applicants : BAKELITTFABRIKKEN A/S, OF DRAMMENSVEJEN 30, OSLO 2, NORWAY.

Inventor : 1. LARS RINGDAL.

Application No. 950/Cal/79 filed September 11, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

10 Claims.

A method of producing molded bodies of expanded plastic of a predetermined density, in which a starting material of plastic in granulate or powder form to which a blowing agent and optionally a cross-linking agent have been added is introduced into an injection molding machine where the starting material is heated and injected into a mold, characterized in that the material is heated to a temperature at which it becomes plastic but which is lower than the temperature required to initiate the reaction of the blowing agent and optional cross-linking agent, that the material in this state is injected into a

mold having such a lower temperature and is given a shape approximately that of the desired final product, after which the blank thus formed is transferred at any suitable later time to an expansion mold having the shape of the desired product but of larger dimensions than the initially molded blank, and is heated in this mold to the activating temperature for the blowing agent and the optional cross-linking agent and thereby expanded, after which the blank is quickly removed from the mold and immediately expands into its permanent shape.

Compl. specn. 13 pages.

Drgs. 4 sheets.

Class. 271 & 0.

153260.

Int. Cl. E 04 b 2/00.

#### WALL ELEMENT MOULDED FROM SELF SUPPORTING BUILDING MATERIAL FOR INSTALLATION WALLS WITH DUCTS.

Applicants and Inventor : KARL HEINZ VAHLBRAUK, OF KRIFGERWEG 1, 3353 BAD GANDERSHOFIM FEDERAL REPUBLIC OF GERMANY.

Application No. 1074/Cal/79 filed October 16, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 13 Claims.

Wall element moulded from a self-supporting building material for installation walls with ducts serving at least for sewage discharge for the construction of elemented wet rooms characterised in that the duct serving for sewage discharge is constituted by a substantially horizontally oriented channel-shaped gastight and water-tight internal cavity (4) in the wall region regularly serving for the connection of sanitary fixtures, whilst the overall height of the internal cavity (4) corresponds at least to the range of the outlet connections to be expected and its bottom is provided with a fall or descent.

Compl. specn. 17 pages.

Drgs. 1 sheet

Class. 72A.

153261.

Int. Cl. C 06 b 11/00.

#### A WATER-IN-OIL EMULSION BLASTING COMPOSITION

Applicants : IRECO CHEMICALS OF SEVENTH FLOOR, KENNEDY COTT BUILDING, SALT LAKE CITY, UTAH, 84133, U.S.A.

Inventors : 1. WALTER B. SUDWEEKS. 2. HARVEY A. IESSOP

Application No. 1267/Cal/79 filed December 4, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims.

A water-in-oil emulsion blasting composition comprising a water-immiscible liquid organic fuel as herein described as a continuous phase in an amount of from 1% to 10% by weight based on the total composition; and emulsified aqueous inorganic oxidizer salt solution consisting of inorganic oxidizer salt as herein described in an amount from 60% to 94%, water in an amount from 5% to 20%, and optionally a water-immiscible organic liquid fuel in an amount from 1% to 10%; and an organic cationic emulsifier as herein described having a hydrophilic portion and lipophilic portion, wherein the lipophilic portion is an unsaturated hydrocarbon chain, in an amount from 0.2% to 5.0%; and if desired, a density reducing in an amount sufficient to reduce the density of the composition to within the range of from 0.9 to 1.4gm/cc.

Compl. specn. 17 pages.

Drgs. 1 sheet.

Class. 200B.

153262.

Int. Cl. E 21 b 43/00.

#### A GAS LIFT METHOD UTILIZING LIQUEFIED GAS

Applicants and Inventor : ALEXANDER IFAEVICH KATINA, AT 12439 MILLBANKS, HOUSTON, TEXAS 77031, UNITED STATES OF AMERICA.

Application No. 202/Cal/80 filed February 22, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims

A gas lift method for lifting a well fluid from a well, the method comprising introducing a liquefied gas under pressure into an interior zone of a well, characterized in that the liquefied gas constitutes a liquid working medium for lifting well fluid, in that the liquid working medium is introduced to maintain a column of liquid working medium in the well to provide downhole pressure for working medium to mix with well fluid, and in that the liquid working medium, upon heating up in the well, is adapted to form gas at a subsurface location for lifting well fluid.

Compl. specn. 14 pages.

Drgs. 1 sheet.

CLASS : 6B<sub>2</sub>; 40H.

153263.

Int. Cl. B01 d 53/00.

#### IMPROVED METHOD FOR RECOVERING NITROGEN FROM AMBIENT AIR BY VACUUM SWING ADSORPTION.

Applicants : AIR PRODUCTS AND CHEMICALS, INC., AT P.O. BOX 538, ALLENTOWN, PENNSYLVANIA, UNITED STATES OF AMERICA.

Inventors : 1. SHIVAJI SIRCAR. 2. THOMAS ROBERT WHITE.

Application No. 230/Cal/80 filed February 28, 1980.

Conventional date 5th February, 1980 (345088) Canada.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims.

An improved method for recovering nitrogen from ambient air by vacuum swing adsorption, which comprises :

(a) passing the water and CO<sub>2</sub>-laden nitrogen rich gas effluent through a first of two desiccant beds containing solid adsorbent capable of retaining water and collecting the dried nitrogen effluent as product gas during a fixed time period short of water breakthrough from said desiccant bed;

(b) during said fixed time period regenerating the companion desiccant bed, which is water laden, by passing through the said bed a stream of said void gas at near ambient pressure and at elevated temperature;

(c) and at the end of said fixed period switching the flow of the nitrogen rich effluent to the freshly regenerated companion bed while initiating regeneration of said first desiccant bed by the procedure defined in step (b).

Compl. Specn. 26 pages.

Drgs. 1 Sheet.

## CLASS 25A &amp; B.

153264.

Int. Cl. C04 b 35/00.

PROCESS FOR THE PRODUCTION OF RESIN BONDED BASIC REFRACTORY BRICK PRODUCTS.

Applicants : ORISSA INDUSTRIES LIMITED, P.O. LATIHKATA, DIST. SUNDARGARH, ORISSA, INDIA.

Inventors : 1. KASHI PRASAD JHUNJHUNWALA, 2. MADAN MOHAN SAHU, AND 3. GANESH CHANDRA BANERJEE.

Application No. 318/Cal/80 filed March 19, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims.

A process for the production of basic refractory brick products which comprises grinding refractory materials as herein described to predetermined grain sizes, preheating the ground refractory materials mixing said refractory materials with an additive such as herein described and a binding agent such as herein described and subsequently with a thermosetting resin at 30-40°C with of desired, a catalyst in a mixer, pressing the refractory aggregate in a known manner to form bricks and finally baking said bricks at a temperature between 80 and 120°C.

Compl. Specn. 9 pages.

Drgs. Nil.

## CLASS : 129G.

153265.

Int. Cl. B02 c 15/00.

A PROCESS FOR PRODUCING IMPROVED GRINDING MEDIA.

Applicants & Inventor : UMANG KEJRIWAL, MANAGING DIRECTOR OF ELECTROSTEEL CASTINGS LTD., 4, B.B.D. BAG (EAST), CALCUTTA-1, WEST BENGAL, INDIA.

Application No. 470/Cal/80 filed April 23, 1980.

Complete specn. left 14th April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

A process for producing improved grinding media having a hardness factor of over 550 BHN which comprises in forming an alloy composition by melting the following components expressed by weight of the total weight of the material :

Chromium 12% — 14%

Carbon 2% — 3.5%

Manganese 0.4% — 1.8%

Copper, nickel and silicon not exceeding 4.2% with trace amount of sulphur and phosphorus and iron forming the remainder, followed by pouring molten alloy into desired moulds depending on the size and shape of the grinding media required, allowing the mould cooled to solidify the molten metal, separating the solidified material at a temperature of minimum 150°C below the solidus temperature, followed by subjecting the moulded shape to a step of heat treatment at temperatures around 1000°C, and thereafter subjecting the heat treated material, after cooling, to a step of tempering at temperature above 150°C.

Prov. Specn. 7 pages.

Compl. Specn. 10 pages.

Drgs. Nil.

## CLASS : 129G.

153266.

Int. Cl. B02 c 15/00.

LINERS FOR GRINDING MILLS AND A METHOD OF PREPARING SAME.

Applicants & Inventor : UMANG KEJRIWAL, MANAGING DIRECTOR OF ELECTROSTEEL CASTING LTD., 4, B.B.D. BAG (EAST), CALCUTTA-1, WEST BENGAL, INDIA.

Application No. 471/Cal/80 filed April 23, 1980.

Complete specification left 17th July, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 17 Claims.

A method for preparing liner for grinding mills made up of high chrome alloy having the following composition :

Carbon .... 1.7—3.2% by weight of the total body.

Chromium .... 14.0—30.0% by weight of the total body.

Manganese .... 1.2% max. by weight of the total body.

Silicon .... 1 % max. by weight of the total body.

Molybdenum .... 0—2.0% by weight of the total body.

Nickel & Copper together.... Not exceeding 2.5%, if at all present.

Sulphur & Phosphorus .... Trace amounts

Iron .... Balance amount.

which comprises pouring the desired molten metal composition into required sand moulds, cooling the mould to solidification of the cast metal, followed by slow cooling to further lower temperature, thereafter removing the cast material and subjecting the same to a step of removing the risers runners, and flow-offs followed by grinding the cast material to the desired shape and then if desired subjecting the cast to heat treatment.

Prov. Specn. 8 pages.

Compl. Specn. 19 pages.

Drgs. 3 Sheets.

## CLASS : 40F.

153267.

Int. Cl. B01 b 1/00, B01 d 1/22, B01 j 1/00, B01 i 7/00.

APPARATUS FOR THERMAL TREATMENT OF FLOWABLE MATERIALS.

Applicants : LUWA AG., ANEMONENSTRASSE 40, 8047 ZURICH, SWITZERLAND.

Inventors : 1. JOHANN GRUTER, 2. HENIZ MARKI.

Application No. 506/Cal/80 filed May 2, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 17 Claims.

Apparatus for the thermal treatment of flowable materials comprising a treatment compartment with a generally vertical insert member therein, the insert member having an outer surface constituting a treatment wall, a generally vertically reciprocable treatment element cooperating with said treatment wall, said treatment element comprising at least one spreader which coacts with the treatment wall for forming material into a thin film, a pre-evaporator for a starting product to be treated and arranged internally of said insert member, the pre-evaporator opening into said treatment compartment.

Compl. Specn. 20 pages.

Drgs. 3 Sheets.



CLASS : 47A.

153268.

27 Claims.

Int. Cl. C10 b 21/10.

A COKE OVEN BATTERY.

Applicants : DR. C. OTTO &amp; COMP. GMBH., OF CHRI-STSTRASSE 9, 4630 BOCHUM, WEST GERMANY

Inventor : 1. FOLKARD WACKERBARTH.

Application No. 655/Cal/80 filed June 2, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A coke oven battery with regenerative heat exchange having gas burners and including means for continuously monitoring a property of the gas supplied for heating which affects the quantity of heat evolved in combustion in the gas to determine the quantity of heat supplied to the battery in each regenerative half cycle and means for stopping automatically the supply of gas to the burners for the rest of the half cycle when predetermined quantity of heat has been supplied to the battery.

Compl. Specn. 8 pages.

Drgs. Nil.

CLASS : 5D.

153269.

Int. Cl. A01 b 79/00.

A MASS FOR DRAINING, IRRIGATING OR LIGHTENING OF VARIOUS SOILS.

Applicants & Inventors : (MRS.) MONIQUE LUCIE SUZANNE MINVIELLE, OF 11, RUE SOLFERINO, 75007 PARIS; ALBERT HENRI FELIX MAZON, OF CHATEAU DE LA FLEUNIE, 24570 CONDAT SUR VEZERE, DORDOGNE; ROBERT PIERRE BRUN, OF VILLAPIAT, AVENUE DE LA CROIX DU SUD, 33120 ARCACHON; SYLVAIN VICTOR LOUIS CHEVANNE, OF MOULIN DU VILLAGE, 95450 THEMERICOURT, VALD'OISE; AND JACQUES LEON ALESANDRE SEE, OF 78 BOULEVARD VICTOR HUGO, 92200 NEUILLY-SUR-SEINE, HAUTS DE SEINE.

Application No. 818/Cal/80 filed July 17, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

A mass for draining, irrigating or lightening of various soils, said mass including hollow elements of various sizes, shapes, wall thicknesses and rigidity, said hollow elements internally defining through open-ended capillary or semi-capillary passage, said mass constituting soil in which said hollow elements are dispersed in mutual contact so oriented relative to one another as to provide between adjacent hollow elements spaces of various shapes and dimensions which combine with the capillary or semi-capillary passages of the hollow elements to form a porous mass for drainage, irrigation or lightening of soil.

Compl. specn. 15 pages. Drgs. 3 sheets.

CLASS : 84A.

153270.

Int. Cl. E21 c 43/00.

PROCESS FOR CONVERSION OF COAL TO GASEOUS HYDROCARBONS.

Applicants & Inventors : DR. ROLLAN SWANSON, C/O. CHEMROLL ENTERPRISES, INC. 100 WALL STREET, NEW YORK, NEW YORK 10005, UNITED STATES OF AMERICA.

Application No. 861/Cal/80 filed July 26, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A process for conversion of coal or peat to gaseous hydrocarbons and volatile distillates characterized in that it comprises the steps of :

reacting coal or peat with a reagent in presence of water and optionally sulfur at a temperature between 50°C and upto 450°C and recovering in a known manner volatile liquid distillates and hydrocarbon gases; said reagent being selected from a hydrosulfide or sulfide of an alkali metal or mixtures thereof, or hydrates thereof; and in that it comprises the following optional steps :

recovering in a known manner hydrogen sulfide or carbonyl sulfide from the reaction zone;

recovering in a known manner coal or peat ash from the reaction zone;

recovering in a known manner unreacted reagent in said coal or peat ash and alkali metal values as alkali metal hydroxide from said coal ash;

reacting alkali metal hydroxides with hydrogen sulfide given off during said reaction and reconstituting said reagent, and

introducing a sufficient amount of said reconstituted reagent in said reaction zone so as to continue said reaction of coal or peat and said reagent.

Compl. specn. 32 pages. Drgs. 1 sheet.

CLASS : 108B1.

153271.

Int. Cl. C21 b 13/02.

DIRECT REDUCTION PROCESS FOR PRODUCING METALLIC IRON.

Applicants : KOBE STEEL, LTD., OF 3-18, 1-CHOME, WAKINOHAMA-CHO, FUKUAI-KU, KOBE-CITY, JAPAN.

Inventors : 1. MAMORU AOKI, 2. MASAHIRO TOMITA, 3. KEI UTSUNOMIYA, 4. HIRONOBU SAKO, 5. DENTARO KANEKO, 6. KATSUNORI SHIMASAKI, 7. YOSHITOMO ISHII.

Application No. 1078/Cal/80 filed September 23, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

An improved process for the direct reduction of iron oxide by blowing into a reduction furnace a reducing gas which is prepared by reforming a mixture of a reduction furnace exhaust gas and a gas mainly composed of methane, which comprises the steps of :

(a) dividing the gas mainly composed of methane into two branch streams;

(b) mixing the first branch stream gas with a part of the reduction furnace exhaust gas and supplying the resulting mixture to the externally heated reformer furnace, having at the outlet of the reformer furnace a temperature of 900—1000°C to produce a high-temperature reformed gas;

(c) mixing the second branch stream gas with said high-temperature reformed gas and, during the course to the reduction furnace, subjecting the mixture to endothermic reforming reactions as herein defined in an after-reactor without external heating, utilizing the sensible heat of the high-temperature mixed gas;

(d) controlling in a manner as herein defined, the self-reforming reactions so as to lower the temperature and simultaneously adjust the composition of the high-temperature mixed gas; and

- (e) blowing the reducing gas, the constituents of which are carbon monoxide, hydrogen, carbon dioxide, steam, methane, nitrogen and small quantities of ethane and propane, into the reduction furnace.

Compl. specn. 20 pages. Drgs. 5 sheets.

CLASS : 32B.

153272.

Int. Cl. C07 b 27/00; C07 c 3/60.

A METHOD FOR PREPARING HYDROCARBON SOLUBLE MAGNESIUM-ALUMINUM COMPOSITIONS.

Applicants : TEXAS ALKYL, INC., OF DEER PARK, TEXAS 77536, U.S.A.

Inventors : 1. DENNIS BENEDICT MALPASS, 2. LOYD WAYNE FANNIN.

Application No. 1085/Cal/80 filed September 24, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims.

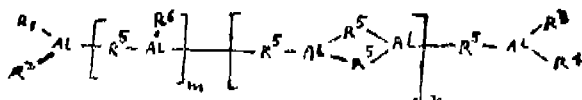
A method for preparing hydrocarbon-soluble magnesium-aluminum composition comprising

- (a) a dialkylmagnesium compound of the formula



in which R and R' are straight-chain alkyl groups of 1 to 4 carbon atoms each, and either have identical lengths or differ from each other in length by one carbon atom, and

- (b) an aluminum diene polymer of the formula I

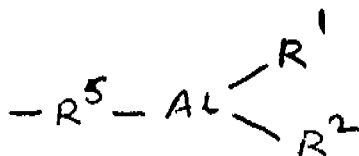


Formula I

in which R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> are independently selected from the group consisting of the isobutyl radical, an alkenyl radical of said diene, an alkenyl radical formed by the addition of said diene to the isobutyl radical, and an alkadienyl radical formed by the addition of said diene to an alkenyl radical of said diene, or either or both of the pairs R<sup>1</sup>R<sup>2</sup> and R<sup>3</sup>R<sup>4</sup> conjointly form an alkylene radical;

R<sup>5</sup> is selected from the group consisting of an alkylene radical of said diene, an alkylene radical formed from the addition product of said diene with said isobutyl radical, and an alkylene radical formed from the addition of said diene with the alkylene radical of said diene;

R<sup>6</sup> is selected from the group consisting of the R<sup>1</sup> radical and radicals having the formula II



Formula II

M is an integer from 0 to 10, and

n is an integer from 0 to 10,

said diene containing 4 to 12 carbon atoms and at least two double bonds at terminal positions, such that the atomic ratio of magnesium to aluminum is from about 0.1 to about 5.0 by physically combining the said dialkylmagnesium compound and the said polymer in a hydrocarbon solvent as

hereindescribed and separating the remaining undissolved solids as hereindescribed.

Compl. specn. 21 pages. Drgs. 1 sheet.

CLASS : 141A & D.

153273.

Int. Cl. B03 b 3/38.

AN INDUSTRIAL PROCESS FOR THE MANUFACTURE OF VALUABLE MATERIAL FROM NATURAL DEPOSITS.

Applicants : SUNCOR INC, OF 20 EGLINTON AVENUE WEST TORONTO, ONTARIO, CANADA M4R 1K8.

Inventor : 1. RAYMOND NEN YIU YONG.

Application No. 1229/Cal/80 filed October 29, 1980.

Conventional date 31st October 1979 (338,892) Canada.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

An industrial process for the recovery of valuable material from natural deposits which comprises subjecting said deposits to a treatment step with an aqueous medium in a treatment tank thereby obtaining a product stream enriched in said valuable material and an effluent or tailings stream lean in said valuable materials and containing the undesired material and water, subjecting the said enriched stream if desired to further treatment steps to recover additional effluent and subjecting the effluents to a step of recovery of water and dewatering of sludge characterised by the improvement which comprises :

- adding hydrolized starch flocculant to said effluent and/or the sludge obtained at a subsequent step,
- surcharging the sludge layer obtained in the tailings pond system with a layer of sand whereby the fine material in the sludge layer are flocculated and dispersed making the sludge layer more permeable to water and enabling the said flocculant treated sludge layer strong enough to self-support said layer of sand over the same, whereby the said sand layer exerts downward pressure on the sludge layer below thereby subjecting the sludge layer to compression whereby the water contained in the sludge layer is forced upwards and migrates through said sand layer thereby enabling the obtaining of a more thoroughly dewatered sludge layer below the said sand layer and obtaining a clarified water layer above said sand layer, which water if desired is recycled in the process.

(Compl. specn. 34 pages. Drgs. 3 sheets).

CLASS : 107G.

153274.

Int. Cl. F01 m 1/06.

OIL PAN ASSEMBLY FOR MOUNTING ON AN INTERNAL COMBUSTION ENGINE.

Applicants : CUMMINS ENGINE COMPANY, INC., AT 1000 5TH STREET, COLUMBUS, INDIANA, UNITED STATES OF AMERICA.

Inventor : 1. JAMES D. BAUGH.

Application No. 1239/Cal/80 filed November 1, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

An oil pan assembly for mounting on an internal combustion engine equipped with a lubrication system designed to obtain oil from the oil pan assembly through an inlet port on the engine positioned asymmetrically within the perimeter of the oil pan assembly when the assembly is mounted on the engine, comprising :

a. an oil pan containing an asymmetrically offset oil reservoir, said oil pan having mounting means for securing reversibly said oil reservoir forwardly of the engine when said oil pan is mounted on the engine in one orientation and rearwardly of the engine when said oil pan is mounted on the engine in a reversed orientation;

b. supply means for conveying oil from the lower inside portion of said oil reservoir to the inlet port, said supply means having a pipe shaped in accordance with the intended orientation of said oil pan with respect to the engine; and

c. attaching means for integrally attaching said pipe to said oil pan to allow said oil pan and said pipe to be mounted simultaneously on the engine and to cause one end of said pipe to be aligned automatically with the inlet port when the oil pan is mounted on the engine in the desired orientation.

Compl. specn. 20 pages. Drgs. 7 sheets.

CLASS : 61A.

153275.

Int. Cl. F26 b 3/24.

#### PROCESS OF DRYING AND CALCINING BULK MATERIALS.

Applicants : METALLGESELLSCHAFT AG, OF REUTERWEG 14, D 6000 FRANKFURT AM MAIN 1, FEDERAL REPUBLIC OF GERMANY AND VOEST ALPINE AG, OF POSTFACH 2, A 4010 LINZ, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. GERHARD KRUGER, 2. WERNER KEPPLINGER.

Application No. 1303/Cal/80 filed November 21, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims.

A process for drying and calcining bulk material in a rotary kiln comprising means for feeding bulk material into said kiln at one end, means at the other end for withdrawing bulk material, means for passing hot gases in counter-current flow to said bulk material and contacting said bulk material with said hot gases, a centrally disposed tube being disposed axially within said rotary kiln toward the bulk material discharge end of said rotary kiln, whereby an annular space is defined between the outer wall of said central tube and inner wall of said rotary kiln, means for passing hot gases within said central tube and means for passing said bulk material through said annular space whereby said bulk material is heated by indirect heat exchange with hot gases within said tube, characterized in that trickling said bulk material over the outside of both sides of said central tube in substantially equal amounts, said central tube being secured to the shell of said rotary kiln by means of lifting blades, each lifting blade being connected at its trailing end with the shell of the rotary kiln such that it does not permit bulk material to pass there-through, each lifting blade being connected to said central tube by connecting members which cause material falling out of the lifting blades to trickle down the outside surface of said tube and the lifting blades have a shape that the material falling from the leading edges trickles down on both sides of said tube in substantially equal amounts.

Compl. specn. 13 pages. Drgs. 2 sheets.

CLASS : 108B.

153276.

Int. Cl. C21 b 13/14.

#### A METHOD FOR PRODUCING LIQUID IRON FROM IRON OXIDES.

Applicants : SKF STEEL ENGINEERING AKTIEBOLAG, OF P.O. BOX 202, S-813 00 HOFORS, SWEDEN.

Inventor : 1. SVEN SANTEN.

Application No. 1322/Cal/80 filed November 28, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims.

A method of producing liquid iron from iron oxide, comprising a prereluction and a final reduction and melting step, characterized by

- performing the prereluction in solid state by use of the reducing gases as herein described generated in the final reduction step;
- performing the final reduction and melting by injecting in a known manner the prerelucted metal oxide simultaneously with a fuel into a reaction zone form inside a column of solid fuel in lump form said column being formed in a shaft furnace filled with said solid fuel;
- generating the required heat energy in said reaction zone by means of a plasma arc heater; and
- operating said final reduction and melting step at a pressure level sufficient to overcome the pressure drop in said prereluction step.

Compl. specn. 9 pages. Drgs. 1 sheet.

CLASS : 47E.

153277.

Int. Cl. C10 b 25/14.

#### DOOR EXTRACTOR FOR THE CLOSURES OF HORIZONTAL COKE OVENS.

Applicants : DR. C. OTTO & COMP. GMBH. OF CHRISTSTRASSE 9, 4630 BOCHUM, WEST GERMANY.

Inventors : 1. HANS-JUERGEN KWASNIK, 2. HANS-GUENTER PIDUCH.

Application No. 1342/Cal/80 filed December 04, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 1 Claim.

Door extractor for the closures of horizontal coke ovens having vertically movable claws engaging behind horizontal beams disposed on the front of the door member, characterized in that one of the claws (20) has disposed on it a pressure-medium-actuated ram (22, 23) which clamps the beam (18) engaged by such claw (20).

Compl. specn. 5 pages. Drgs. 3 sheets.

CLASS : 32B.

153278.

Int. Cl. C07 c 3/52; 15/02.

#### IMPROVED CONTINUOUS PROCESS FOR THE PRODUCTION OF CUMENE.

Applicants : EUTECO IMPIANTI S.p.A., OF VIA GALIANI 11, MILAN, ITALY.

Inventors : 1. EMANUELE SARTORIO, 2. BENEDETTO CALCAGNO, 3. FULVIO TROMBETTI, 4. MARCELLO GHIRGA.

Application No. 1400/Cal/80 filed December 18, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 14 Claims.

An improved and continuous process for the production of cumene by alkylation of benzene with propylene on a solid phosphoric acid catalyst, characterized by :

using two reaction steps in series as hereindescribed, the first step being carried out in a plurality of catalyst beds in series and the second step being carried out in a catalyst bed having a volume substantially equal to the overall volume of the catalyst beds of the first step;

operating the said first and second steps in the liquid phase, at a temperature of from 170° to 270°C and under a pressure of from 30 to 50 kg/sq. cm; and at a space velocity of from 0.3 to 1.4 volumes of liquid reaction medium per volume of catalyst and per hour.

using an overall benzene/propylene molar ratio of at least 5 : 1, continuously delivering the whole of the benzene in the liquid form to the first catalyst bed of the first step, continuously delivering a series of streams of liquid propylene respectively to the first catalyst bed of the first step and, in the form of a cold stream between each pair of contiguous beds in the first step and the bed of the second step, and carrying out a partial recycle of reaction products of the second step as a cold stream between the first and the second step, in such amounts that the benzene/propylene molar ratio be higher than about 13 : 1 at the inlet of each individual catalyst bed of the first step, and higher than about 25 : 1 at the inlet of the catalyst bed of the second step; and

recovering by conventional methods cumene from the reaction products discharged from the second step.

Compl. specn. 17 pages. Drgs. 1 sheet.

CLASS : 32Fb; 55E4; 60Xd. 153279.

Int. Cl. A61 k 27/00; C07 d 49/00.

A PROCESS FOR THE PREPARATION OF ANGIOTENSIN-II ANALOGUES WITH ANTAGONIZING EFFECTS, CONTAINING AND HYDROXYCARBOXYLIC ACID RESIDUE IN POSITION 8.

Applicants : RICHTER GEDEON VEGYESZETI GYAR RT., OF 19, GUOMROI UT, BUDAPEST X., HUNGARY.

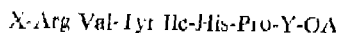
Inventors : 1. OLGA NYEKI, 2. DR. LAJOS KISFALUDY, 3. DR. EGON KARPATI 4. DR. LASZLO SZPORNY.

Application No. 53/Cal/81 filed January 17, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim.

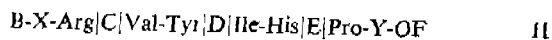
A process for the preparation of angiotensin-II analogues with antagonizing effects, containing an  $\alpha$ -hydroxycarboxylic acid residue in position 8, having the general formula I



wherein, X stands for the acyl group of an N-methylamino acid, preferably sarcosyl group, or the acyl group of an aliphatic diaminoxy or

$\alpha$ -hydroxycarboxylic acid.

Y is the residue of an aliphatic  $\alpha$ -hydroxycarboxylic acid, preferably a residue of alctic acid or L-2-hydroxy-3-methylvaleric acid, and A is hydrogen or a C<sub>1-8</sub> alkyl group, or an acid addition salt or pharmaceutically acceptable complex thereof, characterized in that the protecting groups of a protected octapeptide derivative of the general formula II



wherein, B is a benzyloxycarbonyl or tert-butoxycarbonyl group, C is a group for the temporary protection of the guanidino group on the Arg moiety, preferably a nitro or a tosyl group,

D is a group for the temporary protection of the aromatic hydroxy group on the Tyr moiety, preferably a benzyl or a substituted benzyl group, E is a group for the temporary protection of the imidazole group on the His moiety, preferably a dinitrophenyl group, and F is a group for the protection of the terminal carboxy group, are removed by catalytic hydrogenolysis, after removing the group E by treating it with 2-mercaptoethanol.

Compl. specn. 25 pages.

Drgs. Nil

CLASS : 66D.

153280.

Int. Cl. B05 b 7/00.

EXTENSION NOZZLE ATTACHMENT FOR A FLAME-SPRAY TORCH.

Applicants : EUTECTIC CORPORATION, OF 40-40 172 ND STREET, FLUSHING, NEW YORK 11358, UNITED STATES OF AMERICA.

Inventors : 1. ANTHONY J. ROTOLICO 2. EDUARDO ROMERO.

Application No. 225/Cal/81 filed March 2, 1981.

Appropriate office for opposition proceedings (Rule Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

An extension nozzle attachment for a flame-spray torch for coating within a workpiece bore, said attachment comprising an elongate body with means at one end for removable gas-distributor connection to a gas torch and with a head at the other end for removable nozzle connection, a first independent elongate passage extending the length of said body to said head for accommodation of a distributor-supplied flow of carrier gas and powder and a second independent elongate passage extending the length of said body to said head for accommodation of a distributor-supplied flow of combustible-gas mixture; a nozzle removably fitted to said head and having a central passage for discharge of carrier gas and powder on the nozzle axis, said nozzle having an angularly spaced plurality of combustible-gas jets concentrically arrayed about the nozzle axis and radially outside said central passage, said head and nozzle having cooperating formations defining an annular-manifold region for supply of said combustible-gas jets, said head having first passage means establishing an independent connection of said first elongate passage to the central passage of said nozzle, and said head having second passage means establishing an independent connection of said second elongate passage to said manifold region.

Compl. specn. 15 pages. Drgs. 1 sheet.

CLASS : 47C.

153281.

Int. Cl. C 10 b 21/16.

A SYSTEM FOR IMPROVING THE FLOW IN THE DUCTS BETWEEN THE REGENERATORS OR RECUPERATORS AND THE COMBUSTION CHAMBERS OF INDUSTRIAL GAS-FIRED SYSTEMS, MORE PARTICULARLY COKE OVENS.

Applicants : DR. C. OTTO & COMP. GMBH, OF CHRISTSTRASSE 9, 4630 BOCHUM, WEST GERMANY.

Inventors : 1. DR. CARL-HEINZ STRUCK. 2. RALF SCHUMACHER.

Application No. 284/Cal/81 filed March 16, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A system for improving the flow in the ducts between the regenerators or recuperators and the combustion chambers of industrial gas-fired systems, more particularly coke ovens, with regenerative or recuperative heat recovery from the combustion gases, preheated combustion-supporting media such as air in richgas firing systems or air and lean gas in lean-gas operation being introduced through the ducts from the heat-exchanger outlet into the heating flues, characterised in that a wedge-shaped refractory brick (5) having at least one oblique surface (6) and formed with vertical preferably cylindrical bores (7) is inserted into the vertical portion (2a) of each duct (2), which portion has a suitably increased diameter and enters the base of the flue, the vertical sides of the rectangular cross-section brick (5) abutting the inner walls of the duct and the bottom

oblique surface (6) extending towards the mouth of the obliquely rising portion (2b) of the duct (2); and the sum of the cross-sectional areas of the cylindrical bores (7) is from 0.75 to 1.5 times, preferably from 0.9 to 1.15 times the flow cross-section of the obliquely rising duct portion (2b).

Compl. specn. 10 pages.

Drgs. 3 sheets.

CLASS : 94A

153282

Int. Cl. B 02 c 4/28, 15/08.

**A WEAR METALS LINING OF RUBBER FOR THE SHELL OF ROTATABLE DRUMS.**

Applicants : SKEGA AKTIEBOLAG, OF S-934 02 ARS-MARK, SWEDEN.

Inventors : 1. STURE PERSSON, 2. MATS AHLUND.

Application No. 612/Cal/81 filed June 6, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

A wear metals lining of rubber for the shell of rotatable drums, such as ball and tube mills and the like comprising a rubber lining plate adjacent the inner surface of the shell, and means of pressing said lining plate against said inner surface, said means comprising a rubber lifting member having a first surface facing said lining plate and a second surface facing the interior of the shell, said first surface having a generally T-shaped slit therein in which a mounting rail is located, said rail being attached to said shell by means of bolt and nut such that said mounting rail bears against the surface of said slit and such that said lifting members presses said lining plate against the shell, and a fabric 11 intimately connected to said surface of said slit 4 covering either one surface facing the said lining plate (Figure 1) or entire surface (Figure 2) of said mounting rail 7, said fabric taking up tensile forces arising when the lifting member is exposed to a lateral load.

Compl. specn. 6 pages.

Drgs. 1 sheet.

CLASS : 39P; 128A;

153283

Int. Cl. A 61 f 5/00.

**A METHOD OF FORMING A WATER RESISTANT ORTHOPEDIC CAST.**

Applicants : JOHNSON & JOHNSON PRODUCTS, INC., OF 501 GEORGE STREET, NEW BRUNSWICK, NEW JERSEY 08903, UNITED STATES OF AMERICA.

Inventor : 1. WINIFRED CHRISTINA DABROSKI.

Application No. 735/Cal/81 filed July 3, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

A method of forming a water-resistant orthopedic cast comprising immersing a plaster of Paris cast bandage into dip water containing a dispersion of from 2% to 15% by weight of wax solids, at least 51% of said wax solids being paraffin waxes having a melting point between 100°F and 160°F, said wax solids being dispersed in said water with a cationic or nonionic surfactant such as herein described; removing the cast bandage from the aqueous dispersion and applying the bandage to human body to form a cast.

Compl. specn. 13 pages.

Drgs. Nil.

CLASS : 174G, 206G & I

153284

Int. Cl. F 16 f 15/00; G 05 d 19/00.

**DEVICE FOR DAMPING MECHANICAL OSCILLATIONS.**

Applicants & Inventors : (1) GELY MIKHAILOVICH IVANOV, ULITSA 3 TVERSKAYAYAMSKAYA, 42/8, KV 45, MOSCOW, USSR, (2) VLADISLAV IVANOVICH NOVIKOV, ULITSA KOSMONAVTOV, 44, KV. 18, LJUBERTSY, MOSKOVSKOI OBLASTI, USSR, (3) VLADIMIR VIKTOROVICH KHMELEV 1 PANKOVSKY PROEZZD, 21, KV. 24, LJUBERTSY MOSKOVSKOI OBLASTI, USSR.

Application No. 144/Cal/79 filed February 15, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 18 Claims

A device for damping mechanical oscillations in a system including a controlled device and an actuator coupled mechanically and connected through a flexible member to moment or force transducers, comprises a corrective assembly 5 employing a network of such series-connected elements as a differentiating unit 6, a net time lag tuning unit 7 and an amplitude tuning unit 8 connected to a moment or force transducer 3 and to a controlled drive 1 and furnishing to the input of the drive 1 a signal being in phase opposition with respect to the a-c component of a signal corresponding to the moment or force being measured.

Compl. specn. 64 pages.

Drgs. 8 sheets.

CLASS : 80K; 107G

153285

Int. Class F 01 m 11/00.

**CENTRIFUGAL OIL SEPARATOR FOR AN INTERNAL COMBUSTION ENGINE.**

Applicants : THE GLACIER METAL COMPANY LIMITED, OF 368 EALING ROAD, ALPERTON, WEMBLEY, MIDDLESEX HA0 1HD ENGLAND.

Inventors : 1. JAMES C. KLINGENBERG, 2. ROBERT E. KOGULLA.

Application No. 183/Cal/79 filed February 28, 1979.

Conventional date 3rd April, 19/8 (13001/78) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims

A centrifugal oil separator for an internal combustion engine for separating contaminants from contaminated fluids comprising shroud means defining a first chamber, a vertically extending spindle within said shroud means and having a hollow rotor rotatably mounted thereon, said hollow rotor defining a second chamber for receiving contaminated fluids to be separated, passage means through said spindle to said second chamber, means to rotate said rotor and thereby cause contaminants in contaminated fluids within said second chamber to migrate toward a sidewall of said second chamber under the influence of centrifugal force and to be separated from such contaminated fluids said means to rotate said rotor comprising tangentially mounted outlet port means on said rotor in fluid communication with said second chamber to cause said rotor to rotate upon discharge of fluid from said second chamber to said first chamber, outlet port means from said first chamber, and baffle means between said tangentially mounted outlet port means and the outlet port means from the first chamber to dissipate the buildup of fluid on the inner-side-walls of the first chamber which would tend to interfere with the rotation of the rotor.

Compl. specn. 13 pages.

Drgs. 1 sheet.

CLASS 149D

153286

CLASS : 83B.

153288.

Int. Cl. E 04 c 5|12.

## ANCHORING CARTRIDGES.

Applicants : FOSROC INTERNATIONAL LIMITED OF 36 QUEEN ANNE'S GATE, LONDON SW1H 9AK, ENGLAND.

Inventors : 1. ERNEST CRANKO, 2. ROBERT CRAIGIE CROSS, 3. JOHN MICHAEL DRANSFIELD.

Application No. 971|Cal|79 filed September 17, 1979.  
Complete specification left 17th November, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 34 Claims

An anchoring cartridge such as, for example, as herein described for use in anchoring an anchor element such as for example, as herein described in a hole in a substrate by means of a self-setting composition comprising interactive solid and liquid components as herein described, the cartridge comprising a container housing the solid component of the self-setting composition, the container being formed of a material which does not absorb the liquid component of the composition, the container having a plurality of holes whereby when the cartridge is immersed in the liquid component the liquid passes through the holes into the container there to interact with the solid component to form the self-setting composition, and including means to reduce loss of self-setting composition via the holes when the cartridge is immersed in the liquid component.

Prov. specn. 15 pages.

Compl. specn. 21 pages.

Drgs. 2 sheets.

CLASS 35B

153287

Int. Cl. C 04 b 7|02.

## A PROCESS FOR THE MANUFACTURE OF PORTLAND CEMENT CLINKER AND A METHOD OF PRODUCING CEMENT THEREFROM.

Applicants : BLUE CIRCLE INDUSTRIES LIMITED, OF PORTLAND HOUSE, STAG PLACE, LONDON, SW1E 5BJ, ENGLAND.

Inventors : 1. GEOFFREY RICHARD LONG, 2. HARRY WILFRED WALLACE POLLITT.

Application No. 838|Cal|80 filed July 23, 1980.

Conventional date 1st August, 1979 (7926766) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims

A process for the manufacture of a Portland cement clinker, which process comprises heating to partial fusion a mixture of materials containing principally lime and silica together with a smaller proportion of alumina and iron oxide, characterised in that the heating is effected in the presence of (A) sulphur-bearing material, (B) alkali metal-bearing material, and (C) halogen-bearing material, so that there is retained within the clinker (a) sulphate in an amount of 0.33 to 5% by weight of the clinker, (b) alkali metal in a combined state and in an amount (expressed as the equivalent  $\text{Na}_2\text{O}$ ) of from 0.1 to 3% by weight of the clinker and (c) halogen in a combined state and in an amount of 0.01 to 1% by weight of the clinker.

Compl. specn. 27 pages.

Drgs. Nil.

Int. Cl. A.47 j 36|24.

## APPARATUS FOR HEAT TREATMENT OF MILK AND THE LIKE.

Applicants : ALFA-LAVAL AB, OF FACK, S-147 00 TUMBA, SWEDEN.

Inventors : 1. OLAF AULE, 2. TOMMY NOREN.

Application No. 1255|Cal|80 filed November 5, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims.

Apparatus for heat treatment of milk, comprising a heat exchanger where the milk is heated to the required high temperature by means of heated water, and a holding vessel in which the milk is kept, during a predetermined period of time, wherein a regenerative section, in the heat exchanger, which comprises a heating section and a regenerative section has a space intended to be traversed by incoming, untreated milk, and a space intended to be traversed by heated milk coming from the heating section, wherein the holding vessel consists of a coil which, as seen in the flow direction, is arranged between the heating section and the regenerative section and has a variable length, adjusted to the intended flow and required holding time, and wherein the apparatus is adapted for immediate connection to a milking plant so that the milk arrives in the apparatus at a substantially maintained milking temperature.

Compl. specn. 10 pages.

Drgs. 1 sheet.

CLASS 98G; 132D.

153289.

Int. Cl. F28 f 3|00.

## A CORRUGATED STREAMING SHEET FOR A FURNISHING DEVICE.

Applicants : HAMON-SOBELOCO, SOCIÉTÉ ANONYME 50-58 RUE CAPOUILLET 1060 BRUXELLES, BELGIUM.

Inventor : 1. MONJOLE MICHEL.

Application No. 1440|Cal|80 filed December 29, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims.

A corrugated streaming sheet for a furnishing device comprising liquid streaming sheets which are juxtaposed and vertically corrugated and form therebetween passages for a gas, said sheets comprising in succession, in a direction parallel to the crests of the corrugations, at least two regions in which the corrugations have different amplitudes namely a region having corrugations of small amplitude which are inter-connected by a transition region, wherein said sheet has at intervals along the crests of its corrugations spacer devices by means of which said sheets may be locally fixed to an adjacent sheet and maintained out of contact with the latter except in the region of said spacer.

Compl. specn. 14 pages.

Drgs. 3 sheets.

## PRINTED SPECIFICATION PUBLISHED

## PATENTS SEALED

A limited number of printed copies of the undersigned specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta.

147966 151530 151617 151624 151721 151932 151933 151945  
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## AMENDMENT PROCEEDINGS UNDER SECTION 57

(2)  
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Notice is hereby given that Schubert & Salzer Maschinenfabrik Aktiengesellschaft, A German Company, of Friedrich—Ebert—Strasse 84, 8070 Ingolstadt, West Germany, have made an application under Section 57 of the Patents Act, 1970, for amendment of the specification of their application for patent No. 152097 for "Apparatus for controlling the bobbin drive of a speed frame". The amendments are by way of correction. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017, or copies of the same can be had on payment of usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on Form—30 within 4 months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition, it should be filed within one month from the date of filing of said notice of opposition.

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## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 154160. Associated Engineers, 5A, D.D.A. Sheds, Okhla Industrial Area, Phase-II, New Delhi-110020, Union Territory of India, a partnership firm. "Cable Drum Elevator". 13th March, 1984.

Class. 1. No. 153876. Choosy Cheesy Private Ltd., U-202 Vikas Marg, Shakarpur, Delhi-110092, a company incorporated under the Indian Companies Act. "Washing Machine". 15th December, 1983.

Class. 1. No. 154115. Bright Engineers, (an Indian registered partnership firm). "Spin". 5th March, 1984.

Class. 1. No. 153628. Ghambati & Sons (a partnership firm registered under the Indian Partnership Act) of 43/A Dhanji Street, Motimahal, Bombay-400 002, State of Maharashtra, India. "Metal Cutting saw". 7th November, 1983.

- Class. 1. No. 153521. Bansi Jamshed Wadia, C/o. Tata Iron & Steel Co. Ltd., 43, Chowringhee Road, Calcutta-700 071, West Bengal, India, an Indian National. "Medical Instrument". 1st October, 1983.
- Class. 1. No. 154224. Raj Laxmi Steel Works, at P.O. Box No. 69, Mahatma Gandhi Road, Valsad 396 001, Gujarat State India. "Chair". 27th March, 1984.
- Class. 1. No. 153921. Ashwani Kumar Ahuja, an Indian trading as Donewell Rotaries, R-694, New Rajinder Nagar, New Delhi. "Paper Aligner (Electromagnete)". 28th December, 1983.
- Class. 3. No. 154169. Electronics Consortium Private Limited, an Indian Company, of 9/10, "Arcadia" 1st Floor, Behind Hoechst House, Nariman point, Bombay-400 021, State of Maharashtra, India. "A Television Cabinet". 14th March, 1984.
- Class. 3. No. 154165. Nona Electrical Appliances Manufacturing Company, Sir Niwas, Opp : Gamdevi Maidan, Ram Maruti Cross Road No. 2, Thane-400602, Maharashtra, an Indian Partnership Firm. "Electric Mixer Attachment". 14th March, 1984.
- Class. 3. No. 154166. Nona Electrical Appliances Manufacturing Company, Sir Niwas, Opp : Gamdevi Maidan, Ram Maruti Cross Road No. 2, Thane-400 602, Maharashtra, an Indian Partnership Firm. "Electric Mixer Attachment", 14th March, 1984.
- Class. 3. No. 154285. Peico Electronics and Electricals Limited, of Shivasagar Estate, Block "A", Dr. Annie Besant Road, Worli, Bombay 18 (WB), Maharashtra State, India, an Indian Company. "Loud-speaker for Car Cassette Player". 11th April, 1984.
- Class. 3. No. 153538. Gandhi Brothers, 13/15 Anant Wadi Madanji Mohanji Building, 1st Floor, Room No. 1, Bhuleshwar, Bombay-400 002, Maharashtra, India, a registered Partnership firm. "an Insect Trap". 5th October, 1983.
- Class. 3. No. 154262. Peico Electronics and Electricals Limited, of Shivasagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay 18(WB), Maharashtra State, India, an Indian Company. "Radio". 5th April, 1984.
- Class. 3. No. 154042. Elegant Industries Private Limited, Udvog Bhavan, 250-D, Worli, Bombay-400 025, Maharashtra, a Private Limited Company incorporated under the Indian Companies Act. "Vacuum Flask". 13th February, 1984.
- Class. 3. No. 154118 XX K-PLAST. (a registered partnership firm) of Unit No 27, Building No. 6, Mittal Estate, Andheri Kurla Road, Andheri (East) Bombay-400 059 State of Maharashtra, India, "A CHAIR". 5th March, 1984.
- Class. 3. No. 153634. Bharat Cottage Industries, 60-C-D, Govt. Industrial Estate, Charkop, Kandivali (West), Bombay-400 067, Maharashtra State, an Indian Partnership firm. "Chatni-pickel Tray" 8th November, 1983.
- Class. 3. No. 153633. Bharat Cottage Industries, 60-C-D, Govt. Industrial Estate, Charkop, Kandivali (West), Bombay-400 067, Maharashtra State, an Indian Partnership Firm. "Jar". 8th November, 1983.
- Class. 3. No. 154134 Nilkamal Plastic & Allied Industries, S. Rewa Chambers, first floor, New Marine Lines, Bombay-4000 020 Maharashtra, an Indian Partnership Firm. "Bottle Crate". 9th March, 1984.
- Class. 3. No. 154301. Eagle Flask Private Limited, a company incorporated under the Indian Companies Act, at Eagle Estate, Talegaon-410 507, Dist. Pune, State of Maharashtra, India. "Vacuum Flask". 16th April, 1984.
- Class. 3. No. 154063. Plastelia (a registered partnership firm) of 91, Swami Vivekanand Road, Borivli (West), Bombay-400 092, State of Maharashtra, India. "a Basket". 21st February, 1984.
- Class. 3. No. 154117. K-PLAST, (a registered partnership firm) of Unit No. 27, Building No. 6, Mittal Estate, Andheri Kurla Road, Andheri (East) Bombay-400 059 State of Maharashtra, India. "A BASKET". 5th March, 1984.
- Class. 3. No. 153588. Schwan-Stabilo Schwanhauser GmbH & Co. of Maxfeldstrasse 3, D-8500 Nurnberg-1 Federal Republic of Germany, a Company organised and existing under the laws of Federal Republic of Germany. "Flourescent marker". 22nd October, 1983.
- Class. 3. No. 153635. Bharat Cottage Industries, 60-C-D, Govt. Industrial Estate, Charkop, Kandivali (West), Bombay-400 067, Maharashtra State, an Indian Partnership firm. "Tray Set". 8th November, 1983.
- Class. 3. No. 153636. Bharat Cottage Industries, 60-C-D, Govt. Industrial Estate, Charkop, Kandivali (West), Bombay-400 067, Maharashtra State, an Indian Partnership Firm. "Lunch Box". 8th November, 1983.
- Class. 3. No. 154304. Eagle Flask Private Limited, a company incorporated under the Indian Companies Act, at Eagle Estate, Talegaon-410 507, Dist. Pune, State of Maharashtra, India. "Vacuum Flask". 16th April, 1984.
- Class. 3. No. 154305. Eagle Flask Private Limited, a company incorporated under the Indian Companies Act, at Eagle Estate, Talegaon-410 507, Dist. Pune, State of Maharashtra, India. "Vacuum Flask". 16th April, 1984.
- Class. 12. No. 153681 CIBA-GEIGY AG., Chemical Manufacturers, a Swiss Corporation of Klybeckstrasse 141, 4002 Basle, Switzerland. "Heart-Shaped Tablet". 17th November, 1983.
- Class. 12. No. 153682, CIBA-GEIGY AG., Chemical Manufacturers, a Swiss Corporation of Klybeckstrasse 141, 4002 Basle, Switzerland. "Heart-Shaped Tablet". 17th November, 1983.

Extn. of Copyright for the Second period of five years.

Nos. 151634, 148376, 153442, 153443, 148082, 153698...

Class-1.

Nos. 153261, 153970, 153967, 153974, 153980, 153503, 148083, 153730, 153750. .... Class-3.

Extn. of Copyright for the Thlrd period of five years.

Nos. 151634, 146355, 153442, 153443, 153698. .... Class-1.

Nos. 147088, 147087, 153261, 153970, 153967, 153974, 153980, 153503, 153504, 153508, 153730, 153750.

Class-13

142672 ..... Class-10.

SHANTI KUMAR  
Controller General of Patents, Designs  
and Trade Marks